

Senspuck Pure Battery SPU10

Senspuck Pure is a LoRaWAN Indoor Air Quality sensor. It is designed to operate autonomously for several years. It is suitable for wide variety of indoor applications where accurate data reading are needed.



Key features

- Accurate readings
- No maintenance
- Easy installation

Applications

- Indoor air quality
- Occupancy control
- Virus free environments

Technical specification



Enclosure

Weight	70g
Dimensions	80mm x 80 mm x 20mm
Materials	ABS plastic

Operating conditions

Temperature	0°C to +50°C
Humidity	0 to 100% RH

Power supply

Power Supply type	Li-Ion Battery (ER14505)
Expected operation	Up to 7 years (w/o TVOC Data)

Configuration

Sending interval	12 minutes
Data upload interval	Configuration via Downlink packet

Connectivity

Wireless Technology	LoRaWAN® 1.0.3
Wireless Security	LoRaWAN® End-to-End encryption (AES-CTR), Data Integrity Protection (AES-CMAC)
LoRaWAN Device Type	Class A - End-device
Supported regions	US902-928, EU863-870, AS920-923, AU915-928
Link Budget	137dB (SF7) to 151dB (SF12)
RF Transmit Power	14dBm (Region specific)

Sensors

CO2

Range	400 to 5000ppm
Accuracy	±30ppm

TVOC

Range	0 to 10mg/m ³
Accuracy	±0.5mg/m ³

Temperature

Range	-20 to +85°C
Accuracy	±0.2°C

Relative Humidity

Range	0 to 100%
Accuracy	±1.8%

Air Pressure

Range	300 to 1200hPa
Accuracy (absolute)	±1hPa